

Shenzhen Hetuo Technology Co., Ltd

Building 1202B, Building C 6, Hengfeng industrial city, Hezhou, xixiang, Baoan District, Shenzhen City

Sample Approved Sheet

Hetuo (NY-R1400-L/R+Touch) Acknowledgment

Customer Name Dongguan Shui Wo Electronic Technology Co. , Ltd.

Client Type R1400

Brand NY-R1400-L/R+Touch

Hetuo Judgment Audit Team

Formulate	Check	Ratify	Acknowledge the book completion time
ZhongXiaoMing	HuangZhiLing	Daitingting	2025.11.25

(Ruihe) Judgment Audit Team

Acknowledgement Number_____

Proving time

acknowledge	check	ratify	Acknowledge the book completion time

Project Review ☐Three acknowledgements☐Specifications/drawings
☐examining report ☐Specimen PCS ☐Safety standard ☐HSF

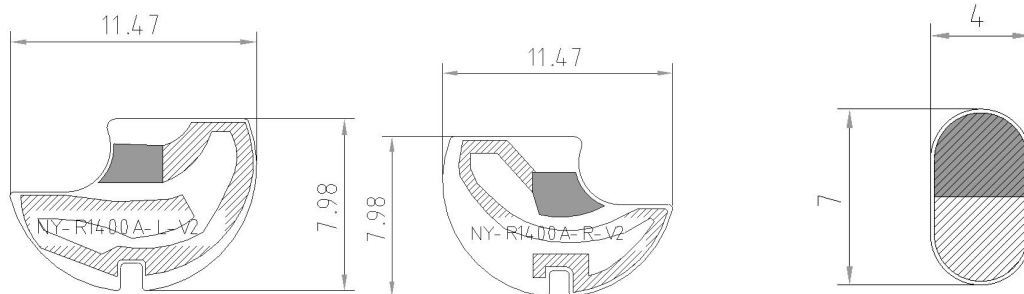
Appraisal report☐Accept ☐Conditional acceptance ☐Refuse

Confidential Information

Items	Date	Version	The revised notes	Notes
1	2025.11.25	A0	For the first time	
2				

1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of **NY-R400 -L/R+Touch**. The **NY-R400 -L/R+Touch** antenna is a **(2400-2500MHZ)** Band . The antenna Picture and assembly are shown below.



Antenna picture & assembly picture

2. Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber , and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

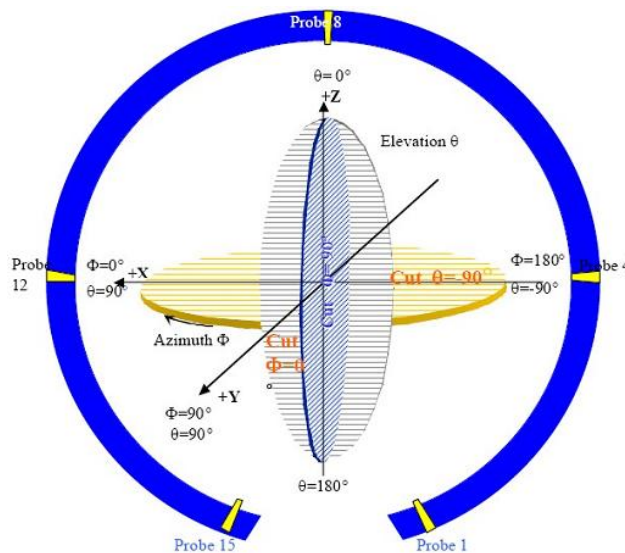


图4 3D微波暗室测试坐标系 (back view)

3. Electrical Specification

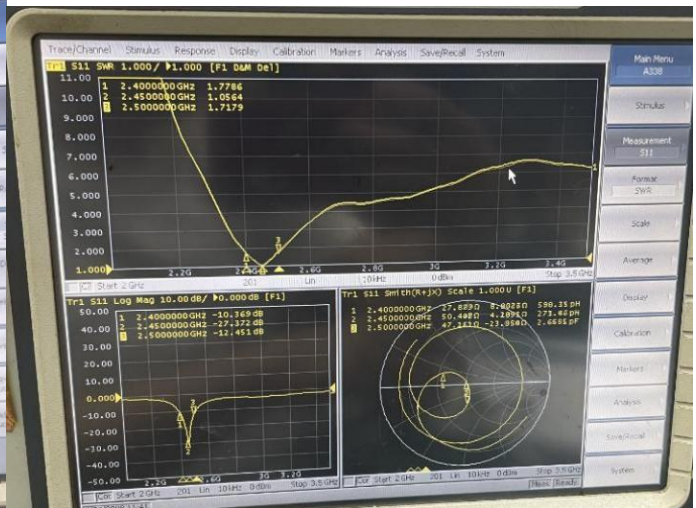
3-2 Passive S11 parameter

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

VSWR

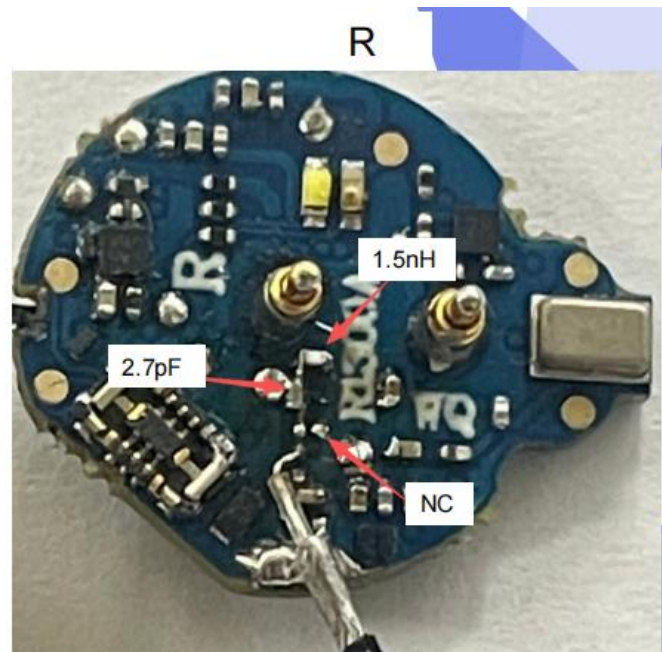
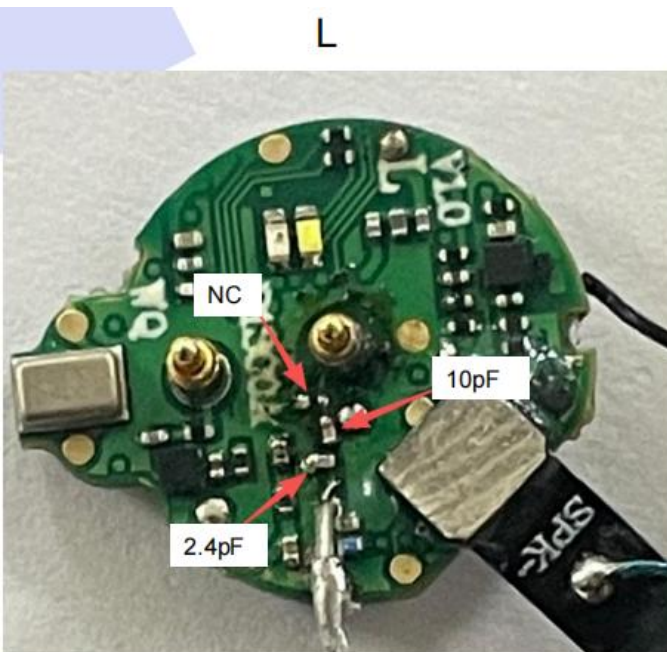


L-S11



R-S11

3-3 Antenna Matching Network



BT ANT-FS-L/R

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	FS-L		FS-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	1.95	-88.5	2.08	-85.38
		39	1.6	-84.69	2.59	-82.86
		78	1.53	-85.07	2.22	-82.72

BT ANT-BH-L/R

Test Equipment:	R&S CMW500					
Test Condition:	3D chamber					
Band	Wireless Protocol	Channel	BH-L		BH-R	
			TRP(dbm)	TIS(dbm)	TRP(dbm)	TIS(dbm)
BT	CLASS 1	0	0.41	-86.18	0.83	-83.79
		39	0.26	-82.23	0.79	-81.12
		78	0.17	-82.12	0.58	-80.87

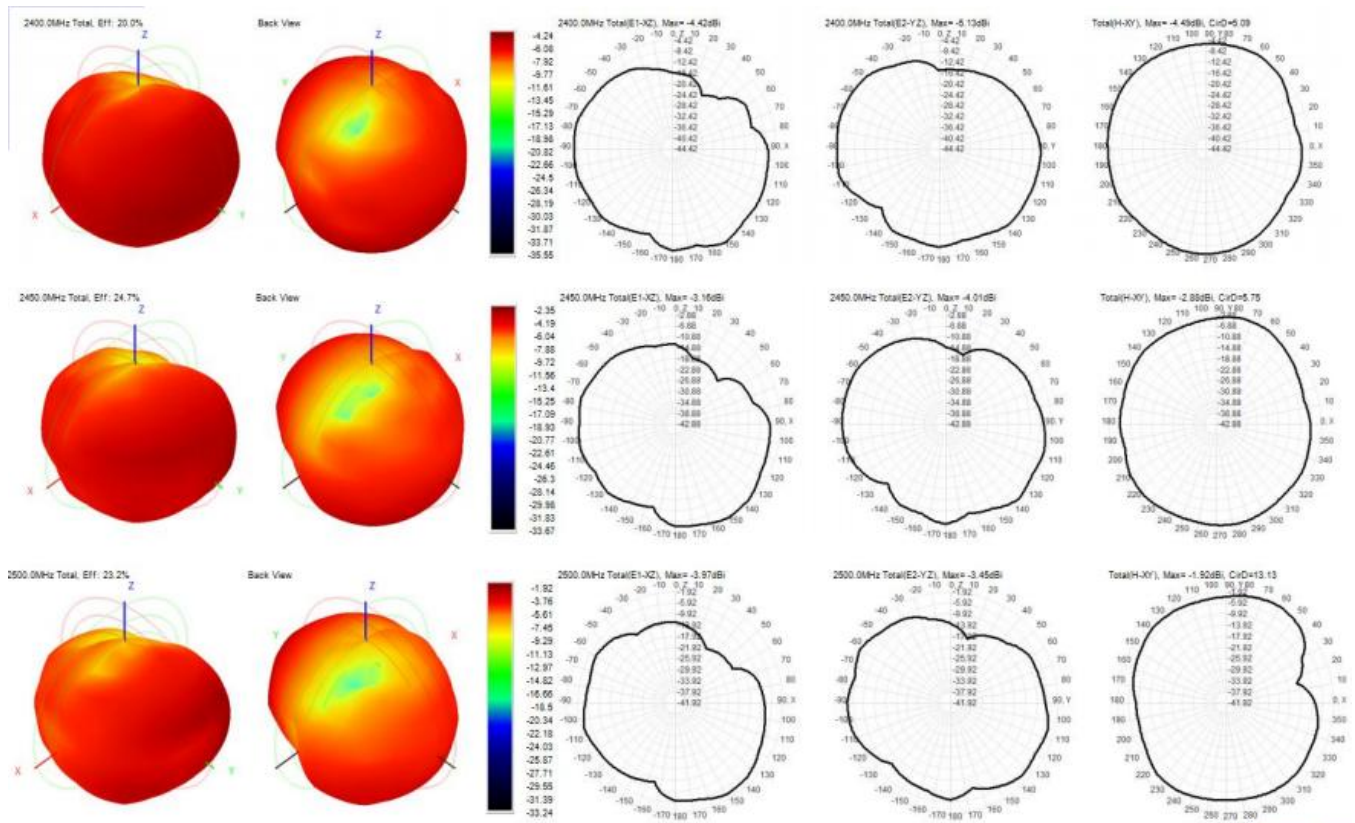
L- ANT

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-4.24	-4.38	-3.05	-3.07	-2.36	-2.35	-1.97	-1.97	-1.56	-1.99	-1.92
Efficiency (%)	20.03	21.49	23.64	22.14	24.79	24.65	26.84	26.23	26.40	23.03	23.23

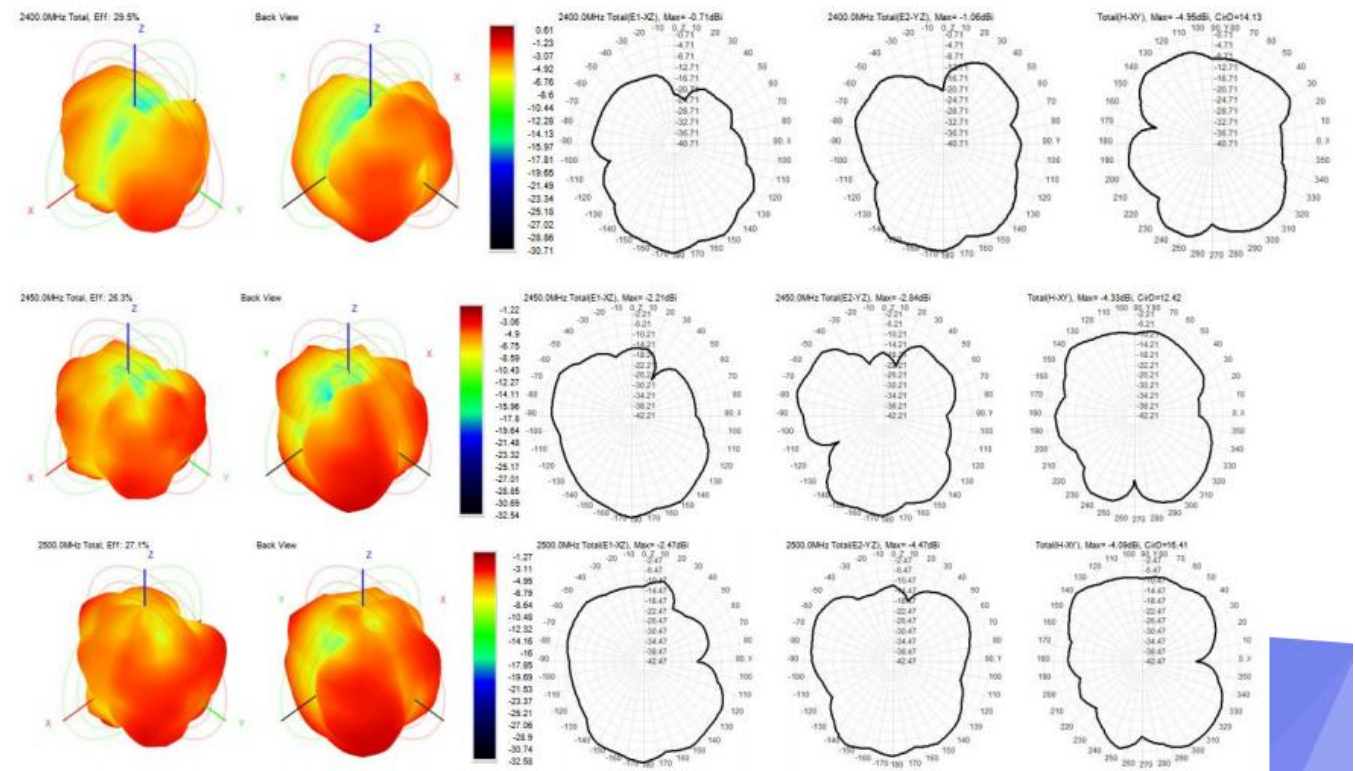
R- ANT

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.61	0.53	-0.21	-0.64	-0.99	-1.22	-1.36	-1.40	-1.72	-1.79	-1.27
Efficiency (%)	29.46	30.60	28.79	28.06	27.08	26.27	25.28	25.07	25.87	25.84	27.09

L- ANT



R- ANT



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